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			1624	- 4
			DATE MAILED: 09/29/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Annth-	
Office Action Comme	Wallanus	Applicant(s)	~ /
Office Action Summary	Examiner	Desc	ng low
	JiM f	ord 1	roup Art Unit
The MAILING DATE of this communication appear	s on the cover sheet b	eneath the corres	Spondence address—
Peri d for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE THE L	MONTH(S) FR	OM THE MAILING DAT
 Extensions of time may be available under the provisions of 37 CFR 1. from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a replaced in the period for reply is specified above, such period shall, by default, effective to reply within the set or extended period for reply will, by statute. 	y within the statutory minimu	um of thirty (30) days t	will be considered timely.
Status			(00 0.0.0. § 100).
Responsive to communication(s) filed on	2 / P	200.7	
☐ This action is FINAL.			•
 Since this application is in condition for allowance except to accordance with the practice under Ex parte Quayle, 1935 	or formal matters, prose C.D. 1 1; 453 O.G. 213.	cution as to the n	nerits is closed in
Disposition of Claims	_		
Of the above claim(s)		into an a	
Of the above claim(s)		is/are pendir	ig in the application.
☐ Claim(s)	is/are withdra	— is/are withdrawn from consideration.	
Claim(s)		is/are allowed	d.
□ Claim(s)		is/are rejecte	d.
☐ Claim(s)		is/are objecte	ed to.
☐ Claim(s)————————————————————————————————————		are subject to requirement.	restriction or election
☐ See the attached Notice of Draftsperson's Patent Drawing R	eview PTO-948		
☐ The proposed drawing correction, filed on	is General G	disapproved	
☐ The drawing(s) filed on is/are objected	to by the Examiner.	disapproved.	
ine specification is objected to by the Examiner.			
☐ The oath or declaration is objected to by the Examiner.			
Pri rity under 35 U.S.C. § 119 (a)-(d)			
 □ Acknowledgment is made of a claim for foreign priority under □ All □ Some* □ None of the CERTIFIED copies of the □ received. 	priority documents have	been	
 □ received in Application No. (Series Code/Serial Number)_ □ received in this national stage application from the International Series (Series Code/Serial Number)_ 	ional Bureau (PCT Pula	. 1 7 2(a))	
*Certified copies not received:	(· O · · · · · · · · ·	, , ,.ε.(α <i>)).</i>	
Attachment(s)		·	•
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).		ota. O	_
	view Summary, PT	O-413	
□ Notice of Reference(s) Cited, PTO-892			
☐ Notice of Reference(s) Cited, PTO-892 ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948	□ Notic	e of Informal Pater	nt Application, PTO-152

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

Part of Paper No.

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Applicants' response of Aug. 18, 2003, is noted.

The claims in the application are claims 1—7 and 9.

Claim 1 is rejected under 35 U.S.C. 112, 1st and 2nd paragraphs.

What is intended by aryl and heteroaryl in R1, R2, or R5? Heterocyclic is a huge area of Chemistry, that completely overshadows the formula I.

The heteroaryl term is not set forth in clear, specific language. The reader must produce the heterocyclic ring, in question.

Judge Smith noted many different definitions for aryl in the footnotes of In re Sus, 134 USPQ 301. therefore, becomes necessary for applicants to indicate in the clams what they intend by aryl. Heterocyclyl, likewise, means many different things to different people. Some definition of heterocyclic include B, P and As as hetero atoms. The U.S.P.T.O. does not consider those heterocyclic, and does not classify those patents as hetero rings. What applicants intend need be found in the claim.

The specification serves various purposes, it sets forth the prior art, that which applicants found unsuccessful, a defensive publication, that which applicants decided not to claim, or compounds that stop the infection, but kill the plant. The reader cannot tell the extent of the new invention, unless it is clearly set forth in the claims, out of the mixed pieces of information of the specification. The claims have to clearly set out that which is claimed.

The heterocyclic term is not acceptable, as it reads on heterocyclic rings that require specific conception by the reader. Specific, producible, heterocyclic

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rings are not set forth in the claims. The source of the starting materials for the combinations claimed is not set forth.

Exactly what ring is being claimed must be set forth in the claim. Is it aromatic?

Conception of what the intended heterocyclic ring, may be, should not be left to the reader.

Where is, what is intended by applicant, supported in the specification with sufficient representative exemplification? Note United Carbon Co. vs. Binney Smith Co. 55 U.S.P.Q. 381, Supreme Court of the United States (1942) "an invention must be capable of accurate definition, and it must be accurately defined to be patentable", above at 386.

Assuming that applicant is claiming what he regards as his invention.

There are in reality only two basic groups for rejecting claims under 35 U.S.C.

112; first is that language used is not precise enough to provide a clear-cut indication of scope of subject matter embraced by claim; this ground finds its basis in second paragraph of section 112; second is that language is so broad that it causes the claim to have a potential scope of protection beyond that which is justified by specification disclosure; this ground stems from first paragraph of section 112, merits of language in claim must be tested in light of these two requirements.

The heterocyclic variable is not precise and definite enough to provide a clear-cut indication of the scope of the subject matter embraced by the claim.

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The heterocyclic concept is so broad that it causes the claim to have a potential scope of protection beyond that which is justified by the specification disclosure.

The written description is considered inadequate here in the specification. Conception should not be the role the reader. Applicants should, in return for a 17/20 year monopoly, be disclosing to the public that which they know as an actual demonstrated fact. The disclosure should not be merely an invitation to experiment. This is a 35 U.S.C. 112, first and second paragraph rejection. If you (the public) find that it works, I claim it, is not a proper basis for patentability, In re Kirk, 153 U.S.P.Q. 48 at page 53.

The heterocyclic rings possible is wide open to staggering possibilities.'

Applicants place too must conception with the reader. The heterocyclic expression leaves open, which ones: Azines, Diazine, Triazine, Tetrazines? Where are the starting materials in the specification? Adjacent O and S are too strained to be produced.

Conception of what the intended heterocyclic ring, may be, should not be left to the reader.

One needs to know exactly where, in the ring, the hetero atoms are: 1,2 or 1,3 or 1,4 or 1,2,4 or 1, 3, 4 etc., as each is a different entity, with a separate search.

These are compound claims, one must clearly know what is being claimed.

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One, on reading the indication of heterocyclic applied by applicant, has no idea where the hetero atoms are in this unknown ring.

What are the hetero atoms?

Not all heterocyclic rings have been shown to be producible, as stable, at room temperature. What is the source of the starting materials? Where is the adequate representative exemplification in the specification to support the claim. language?

The heterocyclic term presents a problem of lack of clear claiming, and support in the specification for the variables sought.

This rests conception with the reader.

What exactly is intended, and where is that supported in the specification,?

Not a fair burden in return for applicants receiving a 17/20 year monopoly.

The possible combinations of any number of hetero atoms, in any combination, in multiple size rings is quire large, and not shown by applicants to be available starting materials.

A Markush listing of intended, conceived of, producible, heterocyclic rings is what is needed here. It is not possible to classify and search the molecule unless one knows exactly which heterocyclic ring is being claimed.

The ultimate utility here is herbicidal. Declarations of unexpected results are often presented in the herbicidal arts. Applicants breadth of heterocyclic produces many different heterocyclic rings that could easily affect results.

Applicants need to claim what they have demonstrated as a specific fact.

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The heterocyclic expressions in claim 1 are not acceptable, as they do not indicate, exactly, clearly, and specifically, what heterocyclic ring is being claimed. These expressions rest specific conception with the reader, and the specification does not include the source of the starting material for the rings which applicant now claims. One must be able to tell from a simple reading of the claim what it does and does not encompass.

Why? Because that compound claim precludes others from making, using, or selling that compound for 17/20 years. Therefore, one must know what compound is being claimed.

The claims measure the invention, United Carbon Co. Vs. Binney & Smith Co., 55 U.S.P.Q. 381 at 384, col. 1, end of fist paragraph, Supreme Court of the United States (1942).

The U.S. Court of Claims held to this standard in Lockhead Aircraft Corp. Vs. United States, 193 U.S.P.Q. 449, "Claims measure the invention and resolution of invention must be based on what is claimed".

The CCPA in 1978 held "that invention is the subject matter defined by the claims submitted by the applicant". "We have consistently held that no applicant should have limitations of the specification read into a claim where no express statement of the limitation is included in the claim": In re Priest, 199 U.S.P.Q. 11, at 15.

Heterocyclic is too broadly stated in claim 1, see In re Wiggins, 178 U.S.P.Q. 421.

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The USPTO only recognizes: C,N,O,S,Se, or Te as atoms of a heterocyclic ring.

Therefore, there is a need for applicants to indicate what they mean by heterocyclic.

Heterocyclic is not just a substituent; it is a whole body of art, larger than the claimed here. Researchers often spen_d their entire life on hetero N heterocyclic compounds without ever getting to hetero O or hetero S compounds. Many heterocyclic compounds, within the claim, have never been made.

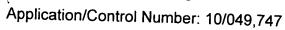
Accordingly, claim 1 is rejected under 35 U.S.C. 112, 1st and 2nd paragraphs. What is being clamed? Where is the adequate representative exemplification in the specification?

In an area of high interferences, you have to think what happen s after the application is allowed. Counts are impossible to construct where there is no specific support in the specification for the term as species; In re Ruschig, 154 USPQ 118.

A count cannot be constructed for heterocyclic as it has no species support; Freerksen vs. Gass, 21 USPQ (2nd) 2007.

Claims 2—7 and 9 are rejected as being dependent on a rejected claim.

Further, as to the 35 U.S.C. 112 rejection of claim 1 (1st and 2nd paragraphs); alkyl, aryl, heterocyclo, alkenyl, and alkinyl, alone or in a combined term, are not limited from infinity in their carbon size. Monocyclic; tricyclic? Very



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large hydrocarbons would waxes and tars that would kill the plants being treated,.

Optionally substituted, used throughout the claim, was objected to as open by the Supreme Court in 1928. Corona V. Dovan, 1928 C.D. 252; 276 U.S. 358.

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September 22, 2003

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